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(57) Abstract:

PURPOSE: To set the drafting direction of a metallic mold which does not generate an under-cut on a cam surface at the time of molding a cam member to be built in a zoom lens barrel of a synthetic resin.

CONSTITUTION: The drafting direction θ_3 of the metallic mold is set by calculation from the angle in the circumferential direction of a cam groove 6 based on the center line of a cam cylinder 5, the rising angle of the cam groove 6 with respect to the optical axis as well as the inside diameter and outside diameter of the cam cylinder formed with the cam groove 6 in order to mold the cam cylinder 5 to be built into the zoom lens barrel by using the synthetic resin material in such a manner as not to generate the under-cut in, for example, the cam groove 6 formed on the cam cylinder 5. The drafting direction θ_3 of the metallic mold having not the under-cut by calculation as well as the same in the case of forming the protruding shape cam on the cam cylinder 5.

